PTO/SB/05 (08-03)
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UTILITY

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Attomey Docket No.		MWS-111		
First Inventor		Joseph F. Hicklin		
Title	METHOD AND APPARATUS FOR IMPROVED MODELING OF CHEMICAL AND BIOCHEMICAL REACTIONS			
Evere	se Mail I ahol No	EL 082 740 456 LIS		

PATENT APPLICATION		METHOD AND APPARATUS FOR IMPROVED				
TRANSMITTAL	Title	MODELING OF CHEMICAL AND BIOCHEMICAL REACTIONS				
(Only for new nonprovisional applications under 37 CFR 1.53(b))	Expres	SS Mail Label No. EL 982 740 456 US				
APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application cor	ntents.	MS Patent Application Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450				
1. X Fee Transmittal Form (e.g., PTO/SB/17)		7. CD-ROM or CD-R in duplicate, large table or				
(Submit an original, and a duplicate for fee processing) Applicant claims small entity status.		Computer Program (Appendix) 8 Nucleotide and/or Amino Acid Sequence Submission				
3. X Specification [Total Pages 51]		Alexandria, VA 22313-1450 7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix) 8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary) a. Computer Readable Form (CRF)				
(preferred arrangement set forth below)	,	b. Specification Sequence Listing on:				
 Descriptive title of the invention Cross Reference to Related Applications 		i. CD-ROM or CD-R (2 copies); or ii. Paper				
 Statement Regarding Fed sponsored R & D Reference to sequence listing, a table, 		c. Statements verifying identity of above copies				
or a computer program listing appendix - Background of the Invention		ACCOMPANYING APPLICATION PARTS				
 Brief Summary of the Invention Brief Description of the Drawings (if filed) 		Assignment Papers (cover sheet & document(s))				
Detailed Description Claim(s) Abstract of the Disclosure		10. 37 CFR 3.73(b) Statement Power of				
	0 1	11. (when there is an assignee) L Attorney 11. English Translation Document (if applicable)				
5. Oath or Declaration [Total Sheets]	≒;	12. Information Disclosure Copies of IDS				
a. Newly executed (original or copy)		Statement (IDS)/PTO-1449				
Converse a prior application (S7 OFR 1 CS(d))		Return Receipt Restored (MRED 502)				
(for continuation/divisional with Box 18 completed) (Should be specifically itemized)						
i. DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s)		15. Certified Copy of Priority Document(s) (if foreign priority is claimed)				
named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).		16. Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its				
		17. X Other: Appendix A (4 pages)				
6. X Application Data Sheet. See 37 CFR 1.76						
18. If a CONTINUING APPLICATION, check appropriate box, a specification following the title, or in an Application Data Sheet	and supp	ly the requisite information below and in the first sentence of the				
Continuation Divisional Continuation						
Prior application information: Examiner		Art Unit:				
For CONTINUATION OR DIVISIONAL APPS only: The entire disciosure of the prior application, from which an oath or declaration is supplied under 8ox 5b, is considered a part of the disciosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.						
19. COR	RESPO	NDENCE ADDRESS				
X Customer Number: 00959		OR Correspondence address below				
Name LAHIVE & COCKFIELD, LLP						
Kevin J. Canning						
Address 28 State Street						
City Boston State	-	MA Zip Code 02109				
	ephone	(617) 227-7400 Fax (617) 742-4214				
Name (Print/Type) John D. Lanza		Registration No. (Attorney/Agent) 40,060				
Signature	Ta	Date February 20, 2004				
V						
I hereby certify that this correspondence is being deposite	ed with the	ne U.S. Postal Service as Express Mail, Airbill No. EL 982 740 456				
		ssioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on				

Dated: February 20, 2004

(John D. Lanza)

PTO/SB/17 (10-03)

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CCC TO A NOMETAL			Complete if Known				
FEE TRANSMITTAL			cation	Numb	er Not Yet Assigned		
for FY 2004			Date		Concurrently Herewith		
		First Named Inventor		Inver	ntor Joseph F. Hicklin		
Effective 10/01/2003, Patent fees are subject to annual revision	n.	Examiner Name		ame	Not Yet Assigned		
Applicant claims small entity status. See 37 CFR 1.	27	Art U	nit		N/A		
TOTAL AMOUNT OF PAYMENT (\$) 1,316.	00	Attorr	ey Do	cket No	o. MWS-111		
METHOD OF PAYMENT (check all that apply)		FEE CALCULATION (continued)					
Check Credit Money Other No.	ne 3. /	ADDITI	ONAL				
Deposit		e Entity		Entity	-		
Account 12-0080 Number	Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid	
Deposit	1051	130	2051	65	Surcharge – late filing fee or oath		
Account Lahive & Cockfield, LLP					Surcharge – late provisional filing fee or cover		
The Director is authorized to: (check all that apply)	1052	50	2052	25	sheet.		
X Charge fee(s) indicated below X Credit any overpaymen	ts 1053	130	1053	130	Non-English specification		
X Charge any additional fee(s) or any underpayment of fee(s)	1812	2,520	1812	2,520	For filing a request for ex parte reexamination		
Charge fee(s) indicated below, except for the filing fee	1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action		
to the above-identified deposit account.	1805	1,840*	1805	1,840*	Requesting publication of SIR after		
FEE CALCULATION	1251	110	2251	55	Examiner action Extension for reply within first month		
1. BASIC FILING FEE	1252	420	2252	210	Extension for reply within second month		
Large Entity Small Entity	1253	950	2253	475	Extension for reply within third month		
Fee Fee Fee Fee Fee Pair Fee Description Fee Pair Code (\$) Code (\$)	1254	1,480	2254	740	Extension for reply within fourth month		
1001 770 2001 385 Utility filing fee 770.00	1255	2,010	2255	1,005	Extension for reply within fifth month		
1002 340 2002 170 Design filing fee	1401	330	2401	165	Notice of Appeal		
1003 530 2003 265 Plant filing fee	1402	330	2402	165	Filing a brief in support of an appeal		
1004 770 2004 385 Reissue filing fee	1403	290	2403	145	Request for oral hearing		
1005 160 2005 80 Provisional filing fee	1451	1,510	1451	1,510	Petition to institute a public use proceeding		
SUBTOTAL (1) (\$) 770.00	7	110	2452	55	Petition to revive – unavoidable		
	1453	1,330	2453	665	Petition to revive - unintentional		
2. EXTRA CLAIM FEES FOR UTILITY AND REISSL Extra Fee from	E 1501	1,330	2501	665	Utility issue fee (or reissue)		
Claims below Fee Pa	id 1502	480	2502	240	Design issue fee		
Total Claims 36 -20** = 16 x 18.00 = 288.00	1503	640	2503	320	Plant issue fee		
Independent 6 -3** = 3 x 86.00 = 258.00	1460	130	1460	130	Petitions to the Commissioner		
Multiple Dependent =	1807	50	1807	50	Processing fee under 37 CFR 1.17(q)		
Large Entity Small Entity	1806	180	1806	180	Submission of Information Disclosure Stmt		
Fee Fee Fee Code (\$) Fee Description	8021	40	8021	40	Recording each patent assignment per		
1202 18 2202 9 Claims in excess of 20	1809	770	2809	385	property (times number of properties) Filing a submission after final rejection		
1201 86 2201 43 Independent claims in excess of 3	1003		2003		(37 CFR 1.129(a))		
1203 290 2203 145 Multiple dependent claim, if not paid	1810	770	2810	385	For each additional invention to be examined (37CFR 1.129(b))		
1204 86 2204 43 ** Reissue independent claims over original patent	1801	770	2801	385	Request for Continued Examination (RCE)		
1205 18 2205 9 ** Reissue claims in excess of 20	1802	900	1802	900	Request for expedited examination of a design application		
and over original patent	Other	fee (spe	cify)				
SUBTOTAL (2) (\$) 546.00	*Red	uced by I	Basic Fil	ling Fee	Paid SUBTOTAL (3) (\$)	0.00	
**or number previously paid, if greater, For Reissues, see above							
SUBMITTED BY					(Complete (if applicable))		
	Canin	Lundin m Ale					

Name (Print/Type) John [40,060 Telephone (617) 227-7400 (Attorney/Agent) Signature Date February 20, 2004

I hereby certify that this correspondence is being deposited with the U.S. Postal Service as Express Mail, Airbill No. EL 982 740 456 US, in an envelope addressed to: MS Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date shown below.

Dated: February 20, 2004

Signature:

(John D. Lanza)

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NONPUBLICATION REQUEST UNDER 35 U.S.C. 122(b)(2)(B)(i)

First I	Named Inventor	Joseph F. Hicklin	
Title	METHOD AND APPARATUS FOR IMPROVED MODELING OF CHEMICAL AND BIOCHEMICAL REACTIONS		
Attorn	ney Docket No.	MWS-111	

I hereby certify that the invention disclosed in the attached application has not and will not be the subject of an application filed in another country, or under a multilateral agreement, that requires publication at eighteen months after filing.

I hereby request that the attached application not be published under 35 U.S.C. 122(b).

February 20, 2004 Date

(617) 227-7400 Telephone Number John D. Lanza - 40,060

Typed or printed name

This request must be signed in compliance with 37 CFR 1.33(b) and submitted with the application upon filing.

Applicant may rescind this nonpublication request at any time. If applicant rescinds a request that an application not be published under 35 U.S.C. 122(b), the application will be scheduled for publication at eighteen months from the earliest claimed filing date for which a benefit is claimed.

If applicant subsequently files an application directed to the invention disclosed in the attached application in another country, or under a multilateral international agreement, that requires publication of applications eighteen months after filing, the applicant must notify the United States Patent and Trademark Office of such filing within forty-five (45) days after the date of the filing of such foreign or international application. Failure to do so will result in abandonment of this application (35 U.S.C. 122(b)(2)(B)(iii)).

I hereby certify that this correspondence is being deposited with the U.S. Postal Service as Express Mail, Airbill No. EL 982 740 456 US, in an envelope addressed to: MS Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date shown below.

Dated: February 20, 2004

Signature:

(John D. Lanza)

Application No. (if	known):	Attorney Docket No.: MWS-111
-		
Cer	tificate of Express Mailin	g Under 37 CFR 1.10
l hereby Express	v certify that this correspondence is being depo s Mail, Airbill No. EL 982 740 456 US in an envi	sited with the United States Postal Service as elope addressed to:
	MS Patent Application Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450	
on	February 20, 2004 Date	
 	Signature John D. Lanza Typed or printed name of person s	igning Certificate
Note:	Each paper must have its own certificate of meach submitted paper. Application Data Sheet	ailing, or this certificate must identify